

**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**  
**Report for quarter ending: June 2015**

Sl. No.	Parameters	Benchmarks	Generations	Compliance Status													
				Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone	
				v	v	x	v	v	v	v	v	v	v	v	v	v	
Andhra Pradesh	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	99.77	100		100.00						96.01	100		99.21	
			2G (GSM)							100.00							
			3G														
			CDMA							100.00							
	2	Successful data transmission download attempts	>80%	All Generations									100.00	100		100.00	
				2G (GSM)	100.00	100		100.00			100.00				100.00		
				3G	100.00	100		100.00									
				CDMA						100.00							
	3	Successful data transmission upload attempts	>75%	All Generations									100.00	100			
				2G (GSM)	100.00	100		100.00			100.00				100.00		
				3G	100.00	100		100.00									
				CDMA						100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1								87 (IX-RNC_PAYG)	62.68 (Photon Whiz)			
					Plan 2							621.33 (HSD)	1224.93 (Photon plus)				
					Plan 3												
				2G	Plan 1	114.75	120.3		119 (Open plan)				88 (RNC_PAYG)	82.75 (EDGE)	75.2		126.91 (Rs 125 Plan with 1GB free)
					Plan 2												
					Plan 3												
				3G	Plan 1	3454.29	1302.9		2177 (Open plan)								
					Plan 2												
					Plan 3												
				4G	Plans												
					Plans												
					Plans												
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1								106 (IX-RNC_PAYG)	73.32 (Photon Whiz)			
					Plan 2							894.33 (HSD)	1768.3 (Photon Puls)				
					Plan 3												
				2G	Plan 1	161.29	150.4		126 (Open plan)				149.33 (RNC_PAYG)	115.92 (EDGE)	150.8		188.90 (Rs 125 Plan with 1GB free)
					Plan 2												
					Plan 3												
				3G	Plan 1	5632.00	1786.9		4199 (Open plan)								
					Plan 2												
Plan 3																	
4G				Plans													
	Plans																
	Plans																
6	Latency	Data <250ms	All Generations									110.50	134				
			2G (GSM)	95.89	239.7		146.00			205.00				162.16			
			3G	12.83	65.3		27.00										
			CDMA						154.60								
7	PDP Context Activation Success Rate	≥95%	All Generations									98.24	99.59				
			2G (GSM)	91.57	100		99.90			99.90				99.61			
			3G	91.57	98.6		97.90										
			CDMA						98.03								
			HSD						98.03								
8	Drop rate :	≤5%	All Generations									1.11	4.4				
			2G (GSM)	0.74	1.3		0.78			1.84				2.74			
			3G	0.92	0.6		0.79										
			CDMA						0.37								
			HSD						0.10								

Note 1: The text in the bracket ( like RNC\_PayG, Mblaze etc) are the plan names of the respective service provider.  
 Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone				
Assam	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.52	100		100.00									99.57			
				2G (GSM)																
				3G											100.00					
				HSD																
	2	Successful data transmission download attempts	>80%	All Generations																
				2G (GSM)	100.00	100		100.00						100.00				100.00		
				3G	100.00	100								100.00						
				CDMA																
	3	Successful data transmission upload attempts	>75%	All Generations																
				2G (GSM)	100.00	100		100.00						100.00				100.00		
				3G	100.00	100								100.00						
				CDMA																
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1															
					Plan 2															
					Plan 3															
				2G	Plan 1	129.65	201		78 (Open plan)						69.31 (RNC PAYG)					107.84 (Pack @699)
					Plan 2															
					Plan 3															
				3G	Plan 1	1753.21	2253.7								1026.36 (HSD)					
					Plan 2															
					Plan 3															
				4G	Plans															
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1															
					Plan 2															
					Plan 3															
				2G	Plan 1	167.76	218.8		117 (Open plan)						126.07 (RNC PAYG)					164 (Pack @699)
Plan 2																				
Plan 3																				
3G				Plan 1	3416.65	3413.7								2027.24 (HSD)						
				Plan 2																
				Plan 3																
4G				Plans																
6	Latency	Data <250ms	All Generations																	
			2G (GSM)	105.83	225.3		122.00					229.50				225.67				
			3G	32.67	35.2							82.23								
			CDMA																	
7	PDP Context Activation Success Rate	≥95%	All Generations																	
			2G (GSM)	99.35	99.7		99.74					99.87				99.93				
			3G	99.35	100							99.19								
			CDMA																	
8	Drop rate :	≤5%	All Generations																	
			2G (GSM)	1.08	1		0.13				3.02				2.47					
			3G	0.62	1.1						0.64									
			CDMA																	

Note 1: The text in the bracket ( like RNC\_PayG, Mblaze etc) are the plan names of the respective service provider.

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone			
Bihar and Jharkhand	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.94	100	100.00						97.57	100		99.33			
				2G															
				3G											100.00				
				CDMA									100.00						
	2	Successful data transmission download attempts	>80%	All Generations										100.00	100	95.47			
				2G (GSM)	100.00	99.7		100.00						100.00			100.00		
				3G	100.00	100								100.00					
				CDMA									100.00						
	3	Successful data transmission upload attempts	>75%	All Generations										100.00	100	93.85			
				2G (GSM)	100.00	99.7		100.00						100.00			100.00		
				3G	100.00	100								100.00					
				CDMA									100.00						
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							92.1 (IX - RNC PAYG)		52 (Photon Whiz)					
					Plan 2									965 (Photon plus)					
					Plan 3														
				2G	Plan 1	130.17	152.6		88 (Open plan)						105.72 (RNC_PAYG)	25 (EDGE)	94.7	154 (Prepaid - STV 96)	99.63 (VMC+VFL_3 GB_30d_2G_2 G RC 199Y_2G)
					Plan 2														
					Plan 3														
				3G	Plan 1	3013.97	3250.9								834.57 (HSD)				
					Plan 2														
					Plan 3														
				4G	Plans														
					Plan 1														
					Plan 2														
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							112.6 (IX - RNC PAYG)		70 (Photon Whiz)					
					Plan 2									1466 (Photon plus)					
					Plan 3														
				2G	Plan 1	167.51	196.7		109 (Open plan)					170.10 (RNC_PAYG)	134 (EDGE)	119.7	198 (Prepaid - STV 96)	177.88 (VMC+VFL_3 GB_30d_2G_2 G RC 199Y_2G)	
					Plan 2														
					Plan 3														
				3G	Plan 1	4068.69	3326.1								1207.17 (HSD)				
					Plan 2														
4G	Plans																		
	Plan 2																		
6	Latency	Data <250ms	All Generations										106.29	122	234.00				
			2G (GSM)	95.18	246.7		245.00						108.41			113.00			
			3G	29.47	63.5									36.98					
			CDMA									163.36							
			HSD																
7	PDP Context Activation Success Rate	≥95%	All Generations										97.99	99.59	100.00				
			2G (GSM)	98.24	99.5		99.27						99.87			99.74			
			3G	98.24	100								99.19						
			CDMA									98.03							
			HSD																
8	Drop rate :	≤5%	All Generations										0.85	4.9	1.65				
			2G (GSM)	0.81	3.3		0.90						4.43			3.10			
			3G	0.63	0.1								0.66						
			CDMA																
			HSD																

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Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone					
Chennai	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.98																
	2	Successful data transmission download attempts	>80%	All Generations																	
				2G (GSM)	100										100.00						
				3G	100										100.00						
	3	Successful data transmission upload attempts	>75%	All Generations																	
				2G (GSM)	100											100.00					
				3G	100											100.00					
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1																
					Plan 2																
					Plan 3																
				2G	Plan 1	134.4														84.74 (199 Unlimited 2GB)	
					Plan 2																
					Plan 3																
				3G	Plan 1	2168.9															1856.85 (650 unlimited 3GB)
					Plan 2																
					Plan 3																
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1																
					Plan 2																
					Plan 3																
				2G	Plan 1	205															167.73 (199 Unlimited 2GB)
					Plan 2																
					Plan 3																
				3G	Plan 1	3886.9															
	Plan 2																				
	6	Latency	Data <250ms	All Generations	2G (GSM)	223.9													127.12		
					3G	41.5													22.95		
					CDMA																
					4G	Plans															
7	PDP Context Activation Success Rate	≥95%	All Generations	2G (GSM)	99.8													99.91			
				3G	99.8													99.67			
				CDMA																	
				4G	Plans																
8	Drop rate :	≤5%	All Generations	2G (GSM)	0.9													2.98			
				3G	0.2													0.85			
				CDMA																	
				4G	Plans																

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Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone					
Delhi	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.21	99.98		99.89	100.00	100				98.20			97.97				
				CDMA									100.00								
				GSM																	
				3G									100.00								
				HSD									100.00								
	2	Successful data transmission download attempts	>80%	All Generations										100.00							
				2G (GSM)	100.00	98.6		100.00	97.86				100.00					99.73			
				3G	100.00	97.5			99.40				100.00						99.88		
				CDMA							100		100.00								
				HSD									100.00								
	3	Successful data transmission upload attempts	>75%	All Generations										100.00							
				2G (GSM)	100.00	99.5		100.00	95.26				100.00					99.95			
				3G	100.00	97.5			97.77				100.00						99.92		
				CDMA							100		100.00								
				HSD									99.90								
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						894 (Mblaze)			93.29 (IX - RNC_PAYG)		74 (Photon Whiz)					
					Plan 2						2601 (Mblaze ultra)			758.51 (HSD)		1773 (Photon plus)					
					Plan 3											2475 (Photon Max)					
				2G	Plan 1	91.69	70.8		127 (Open plan)	77.24					70.76 (RNC_PAYG)					74.65 (Rs 125 Rental plan with 1GB free)	
					Plan 2																
					Plan 3																
				3G	Plan 1		2045				436.11				1398.19 (HSD)					766 (Rs 250 Rental plan with 1GB free)	
					Plan 2																
					Plan 3																
				4G	Plans																
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						1497 (Mblaze)			118.04 (IX - RNC_PAYG)		83 (Photon Whiz)					
					Plan 2							3706 (Mblaze ultra)			662.31 (HSD)		2176 (Photon plus)				
					Plan 3											3369 (Photon Max)					
				2G	Plan 1	140.63	110.4		155 (Open plan)	95.68					144.32 (RNC_PAYG)					174.65 (Rs. 125 Rental plan with 1GB free)	
					Plan 2																
					Plan 3																
				3G	Plan 1		2356.9				638.24				3007.65 (HSD)					3901.33 (Rs 250 Rental plan with 1GB free)	
					Plan 2																
					Plan 3																
				4G	Plans																
6	Latency	Data <250ms	All Generations					141.33						64.60							
			2G (GSM)	130.30	192.7		126.00					97.81					232.00				
			3G		81.7								24.18					59.67			
			CDMA							65		157.44									
			HSD									40.55									
7	PDP Context Activation Success Rate	≥95%	All Generations					95.75						96.89							
			2G (GSM)	97.18	99.8		99.27					99.88					99.75				
			3G		100							99.20						99.20			
			CDMA							98.4		97.97									
			HSD									97.97									
8	Drop rate :	≤5%	All Generations					1.80						1.20							
			2G (GSM)	1.20	1.2		2.08					4.19					2.86				
			3G		0.6							0.87						0.55			
			CDMA							1.2		0.66									
			HSD									0.60									

Note 1: The text in the bracket ( like RNC\_PayG, Mblaze etc) are the plan names of the respective service provider.

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

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Gujarat	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	100.00	99.71		100.00		100			96.00	100		99.84					
				2G (GSM)									100.00								
				CDMA									100.00								
				HSD									99.00								
	2	Successful data transmission download attempts	>80%	All Generations										100.00	100	97.54					
				2G (GSM)	92.46	100		100.00					100.00				99.67				
				3G	92.46			100.00										100.00			
				CDMA							100		100.00								
	3	Successful data transmission upload attempts	>75%	All Generations										100.00	100	96.80					
				2G (GSM)	93.97	100		100.00					100.00				98.51				
				3G	93.97			100.00										99.73			
				CDMA							100		100.00								
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						1123 (Mblaze)			55.81 (IX - RNC_PAYG)		73 (Photon Whiz)					
					Plan 2						2068 (Mblaze ultra)			502.64 (HSD)		893 (Photon plus)					
					Plan 3											1251 (Photon Max)					
				2G	Plan 1	103.89	69.1		79 (Open plan)						56.13 (RNC_PAYG)		77 (EDGE)	61.1	151.33 (Plan:STV Rs. 125 (2.5GB))	43.18 (2G MI199)	
					Plan 2																
					Plan 3																
				3G	Plan 1					2287 (Open plan)										2228.67 (3G MI199)	
					Plan 2												1911 (Photon 3G)				
					Plan 3												3383 (Photon3G+)				
				4G	Plans																
					5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					1998 (Mblaze)			108.06 (IX - RNC_PAYG)		81 (Photon Whiz)		
									Plan 2					3343 (Mblaze ultra)			1062.90 (HSD)		1382 (Photon plus)		
	Plan 3														1569 (Photon Max)						
	2G	Plan 1	164.45	144.3		155 (Open plan)						135.13 (RNC_PAYG)		111 (EDGE)	121.9	187 (plan:STV Rs. 125 (2.5GB))	114.43 (2G MI199)				
		Plan 2																			
		Plan 3																			
3G	Plan 1					4998 (Open plan)										5521 (3G MI199)					
	Plan 2												2858 (Photon 3G)								
	Plan 3												3877 (Photon3G+)								
4G	Plans																				
	6	Latency	Data <250ms	All Generations									64.40	190	237.00						
				2G (GSM)	100.90	241		102.00				241.69				120.50					
3G							65.00								27.42						
CDMA									85		165.33										
7	PDP Context Activation Success Rate	≥95%	All Generations										98.70	99.59	99.99						
			2G (GSM)	96.39	98.7		100.00				99.90				99.35						
			3G				100.00								99.56						
			CDMA						98.1		97.97										
8	Drop rate :	≤5%	All Generations										1.70	4.70	1.35						
			2G (GSM)	0.65	2.5		0.16				0.42				0.44						
			3G				1.20								0.77						
			CDMA						1.6		0.40										
HSD									0.57												

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Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone		
Himachal Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.90	100	100.00						98.00			98.96		
				2G (GSM)										100.00				
				3G														
				CDMA														
	2	Successful data transmission download attempts	>80%	All Generations										99.90				
				2G (GSM)	100.00	100	100.00							100.00		100.00		
				3G	100.00	100	100.00							100.00				
				CDMA									100.00					
	3	Successful data transmission upload attempts	>75%	All Generations										99.90				
				2G (GSM)	100.00	100	100.00							100.00		100.00		
				3G	100.00	100	100.00							100.00				
				CDMA									100.00					
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							105.15 (IX - RNC PAYG)		48 (Photon Whiz)				
					Plan 2									534 (Photon plus)				
					Plan 3													
				2G	Plan 1	85.75	100		103 (Open plan)					101.65 (RNC PAYG)	72 (EDGE)			64.84 (Talk Invitation 50)
					Plan 2													
					Plan 3													
				3G	Plan 1		1706.7		2907 (Open plan)						1024.83 (HSD)			
					Plan 2													
					Plan 3													
				5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							120.24 (IX - RNC PAYG)		71 (Photon Whiz)	
	Plan 2													700 (Photon plus)				
	Plan 3																	
	2G	Plan 1	156.15				185.7		148 (Open plan)					168.91 (RNC PAYG)	109 (EDGE)			169.16 (Talk invitation 50)
		Plan 2																
		Plan 3																
	3G	Plan 1		3467.9		5285 (Open plan)						2221.23 (HSD)						
		Plan 2																
		Plan 3																
	6	Latency	Data <250ms	All Generations										128.06				
				2G (GSM)	133.67	216	115.00						131.58		119.50			
3G					160	113.00						47.04						
CDMA										179.12								
7	PDP Context Activation Success Rate	≥95%	All Generations										98.34					
			2G (GSM)	99.83	99.9	99.40						99.92		99.78				
			3G		100	98.51						98.76						
			CDMA							98.03								
8	Drop rate :	≤5%	All Generations										1.64					
			2G (GSM)	0.74	1.2	0.71						4.48		4.30				
			3G		0.6	1.33						0.72						
			CDMA							0.18								

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Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone					
Haryana	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	98.98	97.25		100.00					99.84				98.90				
				2G (GSM)									100.00								
				CDMA									100.00								
				HSD									100.00								
				2G (GSM)	97.92	100		99.99					100.00			99.90		97.77		99.67	
	2	Successful data transmission download attempts	>80%	All Generations														100.00			
				2G (GSM)	97.92	100		99.99				100.00							99.67		
				3G	97.92			100.00												100.00	
				CDMA								100.00									
				HSD								100.00									
	3	Successful data transmission upload attempts	>75%	All Generations										100.00				97.55			
				2G (GSM)	97.66	100		100.00				100.00							99.83		
				3G	97.66			100.00												99.83	
				CDMA								100.00									
				HSD								99.84									
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							91.91 (IX - RNC_PAYG)		39.79 (Photon Whiz)							
					Plan 2							852.27 (HSD)		480.35 (Photon plus)							
					Plan 3																
				2G	Plan 1	75.93	108.7		128 (Open plan)					72.82 (RNC_PAYG)		58.64 (EDGE)		212.08 (STV Rs.109 1GB 31 Days)		69.80 (PLAN- 198 Rs / 2GB)	
					Plan 2																
					Plan 3																
				3G	Plan 1				1931 (Open plan)							1419.11 (Photon 3G)				1620.72 (PLAN - 198 Rs/2GB)	
					Plan 2											1686.00 (Photon 3G)					
					Plan 3											3340.33 (Photon3G+)					
				4G	Plans																
					Plan 1									113.54 (IX - RNC_PAYG)		75.66 (Photon Whiz)					
					Plan 2									938.02 (HSD)		987.27 (Photon plus)					
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1																
Plan 2																					
Plan 3																					
2G				Plan 1	103.61	208.5		150 (Open plan)					100.21 (RNC_PAYG)		94.35 (EDGE)		216 (STV Rs. 109 1GB 31 Days)		140.96 (PLAN 198 Rs / 2GB)		
				Plan 2																	
				Plan 3																	
3G	Plan 1				3310 (Open plan)							2037.81 (Photon 3G)				3551.70 (PLAN - 198 Rs/2GB)					
	Plan 2											2374.98 (Photon 3G)									
	Plan 3											4654.92 (Photon3G+)									
4G	Plans																				
	Plan 1																				
	Plan 2																				
6	Latency	Data <250ms	All Generations										85.50		195.00						
			2G (GSM)	106.21	206.7		57.00				103.49							123.92			
			3G				30.00												43.77		
			CDMA									171.93									
			HSD									44.65									
7	PDP Context Activation Success Rate	≥95%	All Generations										98.80		100.00						
			2G (GSM)	100.00	99.7		99.04				99.88							99.80			
			3G				99.25												99.58		
			CDMA									97.97									
			HSD									97.97									
8	Drop rate :	≤5%	All Generations										2.10		1.52						
			2G (GSM)	0.30	0.7		0.82				1.24							3.26			
			3G				1.25												1.03		
			CDMA									0.40									
			HSD									0.47									

Note 1: The text in the bracket ( like RNC\_PayG, Mblaze etc) are the plan names of the respective service provider.

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.



Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone				
Jammu and Kashmir	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.80	100		100.00									99.36			
				2G (GSM)																
				3G										100.00						
				HSD																
	2	Successful data transmission download attempts	>80%	All Generations																
				2G (GSM)	100.00	100		100.00					100.00					96.06		
				3G	100.00	100		100.00					100.00							
				CDMA																
	3	Successful data transmission upload attempts	>75%	All Generations																
				2G (GSM)	100.00	100		100.00					100.00					97.49		
				3G	100.00	100		100.00					100.00							
				CDMA																
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1															
					Plan 2															
					Plan 3															
				2G	Plan 1	157.47	84		128 (Open plan)					118.55 (RNC PAYG)						54.74 (plan-99 1GB)
					Plan 2															
					Plan 3															
				3G	Plan 1	2911.44	1194.7		2543 (Open plan)					1494.83 (HSD)						
					Plan 2															
	Plan 3																			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1															
					Plan 2															
					Plan 3															
				2G	Plan 1	172.67	208		157 (Open plan)					212.68 (RNC PAYG)						105.19 (plan-99 1GB)
					Plan 2															
					Plan 3															
				3G	Plan 1	3192.21	3276.8		4203 (Open plan)					3792.34 (HSD)						
					Plan 2															
	4G	Plan 3																		
		Plans																		
	6	Latency	Data <250ms	All Generations																
2G (GSM)				106.50	229		195.00					113.45					156.83			
3G				99.80	106.7		140.00					97.12								
CDMA																				
HSD																				
7	PDP Context Activation Success Rate	≥95%	All Generations																	
			2G (GSM)	99.80	100		99.43					99.88					99.93			
			3G	1.18	100		98.74					99.20								
			CDMA																	
			HSD																	
8	Drop rate :	≤5%	All Generations																	
			2G (GSM)	0.82	1.1		0.18					2.85					2.76			
			3G		0.8		1.18					2.33								
			CDMA																	
			HSD																	

Note 1: The text in the bracket ( like RNC\_PayG, Mblaze etc) are the plan names of the respective service provider.

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone				
Kolkata	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.85	93.6		99.99		100			100.00			98.64				
				2G (GSM)										100.00						
				3G											100.00					
				CDMA										100.00						
												100.00								
	2	Successful data transmission download attempts	>80%	All Generations										99.94						
				2G (GSM)	100.00	100		100.00						100.00			98.68			
				3G	100.00									100.00			98.28			
				CDMA							100		100.00							
												100.00								
	3	Successful data transmission upload attempts	>75%	All Generations										99.97						
				2G (GSM)	100.00	100		100.00						100.00			99.31			
				3G	100.00									100.00			98.96			
				CDMA							100		100.00							
												100.00								
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						340 (Mblaze)			98.62 (IX - RNC_PAYG)		47 (Photon Whiz)				
					Plan 2						1233 (Mblaze ultra)			906.30 (HSD)		900 (Photon plus)				
					Plan 3											1106 (Photon Max)				
				2G	Plan 1	101.03	128.1		117 (Open plan)						87.13 (RNC_PAYG)	23 (EDGE)			74.10 (Postpaid PayG unlimited)	
					Plan 2															
					Plan 3															
				3G	Plan 1	2141.17										1509.20 (HSD)				1523.98 (Postpaid PayG unlimited)
					Plan 2															
					Plan 3															
				4G	Plans															
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						1517 (Mblaze)			114.83 (IX - RNC_PAYG)		70 (Photon Whiz)				
					Plan 2						2538 (Mblaze ultra)			959.03 (HSD)		1322 (Photon plus)				
					Plan 3											2062 (Photon Max)				
				2G	Plan 1	151.03	184.7		151 (Open plan)						149.97 (RNC_PAYG)	105 (EDGE)			137.42 (Postpaid PayG unlimited)	
					Plan 2															
					Plan 3															
				3G	Plan 1	3970.40										2187.07 (HSD)				5049.94 (Postpaid PayG unlimited)
					Plan 2															
					Plan 3															
				4G	Plans															
	6	Latency	Data <250ms	All Generations										93.42						
2G (GSM)				119.66	176.7		142.00						90.30			123.67				
3G				20.28										34.60			50.00			
CDMA										54		184.30								
										46.30										
7	PDP Context Activation Success Rate	≥95%	All Generations										98.34							
			2G (GSM)	99.31	99.2		98.96						99.87			99.76				
			3G	99.31										99.19			99.02			
			CDMA							98.7		98.03								
										98.03										
8	Drop rate :	≤5%	All Generations										1.39							
			2G (GSM)	1.24	1.3		0.99						4.34			2.02				
			3G	1.17									0.72			0.62				
			CDMA							0.9		0.19								
										0.36										

Note 1: The text in the bracket ( like RNC\_PayG, Mblaze etc) are the plan names of the respective service provider.

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone					
Kerala	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.99	99.18		100.00		100				99.00			99.62				
				2G (GSM)									100.00								
				CDMA									100.00								
				HSD									100.00								
				2G (GSM)	100.00	100		100.00					100.00			100.00			99.39		
	2	Successful data transmission download attempts	>80%	All Generations																	
				2G (GSM)	100.00	100		100.00					100.00								
				3G	100.00			100.00													
				CDMA							100		100.00								
				HSD									100.00								
	3	Successful data transmission upload attempts	>75%	All Generations																	
				2G (GSM)	100.00	100		100.00					100.00								
				3G	100.00			100.00													
				CDMA							100		100.00								
				HSD									100.00								
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						547 (Mblaze)			89.81 (IX - RNC_PAYG)			62 (Photon Whiz)				
					Plan 2						1530 (Mblaze ultra)			788.47 (HSD)			1034 (Photon plus)				
					Plan 3												1485 (Photon Max)				
				2G	Plan 1	40.83	75.7		104 (Open plan)							112.17 (RNC_PAYG)			51 (EDGE)		74.31 (3GB VMC 199 plan)
					Plan 2																
					Plan 3																
				3G	Plan 1	1092.10			2041 (Open plan)												
					Plan 2														1047 (Photon 3G)		
					Plan 3													4784 (Photon3G+)			
				4G	Plans																
					Plan 1								1054 (Mblaze)				116.44 (IX - RNC_PAYG)			82 (Photon Whiz)	
					Plan 2								2916 (Mblaze ultra)				908.30 (HSD)			1893 (Photon plus)	
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 3												2753 (Photon Max)				
2G					Plan 1	181.53	135.6		131 (Open plan)						178.12 (RNC_PAYG)		127 (EDGE)		132.11 (3GB VMC 199 plan)		
Plan 2																					
3G				Plan 1	3208.53			3127 (Open plan)													
				Plan 2														4455 (Photon 3G)			
				Plan 3													6249 (Photon3G+)				
4G	Plans																				
6	Latency	Data <250ms	All Generations														71.40				
			2G (GSM)	80.00	214.3		137.00					119.31						198.00			
			3G	30.83			62.00														
			CDMA							86		156.82									
			HSD									49.66									
7	PDP Context Activation Success Rate	≥95%	All Generations														98.60				
			2G (GSM)	96.39	100		99.80					99.90						99.78			
			3G	96.39			98.92														
			CDMA							99		96.95									
			HSD									96.95									
8	Drop rate :	≤5%	All Generations														1.20				
			2G (GSM)	2.64	0.7		0.79					3.99						3.90			
			3G	0.00			1.46														
			CDMA							1.6		0.84									
			HSD									0.80									

Note 1: The text in the bracket ( like RNC\_PayG, Mblaze etc) are the plan names of the respective service provider.

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone				
Karnataka	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.45	99.99		100.00		100				99.00			98.51			
				2G (GSM)									100.00							
				CDMA									100.00							
				HSD									99.00							
	2	Successful data transmission download attempts	>80%	All Generations										100.00						
				2G (GSM)	99.97	100		100.00					100.00					98.97		
				3G	99.97	100														
				CDMA							100		100.00							
				HSD									100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00						
				2G (GSM)	99.88	100		100.00					100.00					98.17		
				3G	99.88	100														
				CDMA							100		100.00							
				HSD									100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						742 (Mblaze)			61.86 (IX - RNC_PAYG)			37.00 (Photon Whiz)			
					Plan 2							983 (Mblaze ultra)			545.20 (HSD)		945.00 (Photon plus)			
					Plan 3										1797.33 (HSD Pro)		1344.67 (Photon Max)			
				2G	Plan 1	149.42	100.5		124 (Open plan)							63.92 (RNC_PAYG)		65.00 (EDGE)		58.03 (2GB Unlimited@ MRP 199)
					Plan 2															
					Plan 3															
				3G	Plan 1	3061.91	1054.5													
					Plan 2														1161 (Photon 3G)	
					Plan 3													1462 (Photon3G+)		
				4G	Plans															
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						1523 (Mblaze)			115.88 (IX - RNC_PAYG)			63.00 (Photon Whiz)			
					Plan 2							2214 (Mblaze ultra)			1069.84 (HSD)		1664.67 (Photon plus)			
					Plan 3										2765.00 (HSD Pro 3 plan)		1947.67 (Photon Max)			
				2G	Plan 1	181.31	133.5		152 (Open plan)							107.06 (RNC_PAYG)		107.00 (EDGE)		135.33 (2GB unlimited@ MRP 199)
					Plan 2															
Plan 3																				
3G				Plan 1	7468.60	2102.6														
				Plan 2														2326 (Photon 3G)		
				Plan 3													3057 (Photon3G+)			
4G				Plans																
6	Latency	Data <250ms	All Generations													76.30				
			2G (GSM)	88.34	128.3		131.00						55.40				196.24			
			3G	30.76	66.4															
			CDMA								119		219.47							
			HSD										60.15							
7	PDP Context Activation Success Rate	≥95%	All Generations													98.90				
			2G (GSM)	96.39	99.6		99.49						99.70					99.89		
			3G	96.39	98.9															
			CDMA								98.7		96.95							
			HSD										96.95							
8	Drop rate :	≤5%	All Generations													1.40				
			2G (GSM)	1.43	1.3		0.65						1.86					3.27		
			3G	1.08	0.6															
			CDMA								0.8		0.29							
			HSD										0.92							

Note 1: The text in the bracket ( like RNC\_PayG, Mblaze etc) are the plan names of the respective service provider.

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone				
Maharashtra	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.98	99.66		100.00					97.00	100		99.08				
				2G (GSM)									100.00							
				CDMA									100.00							
				HSD									99.00							
	2	Successful data transmission download attempts	>80%	All Generations										100.00	100					
				2G (GSM)	100.00	98.9		100.00					100.00				99.84			
				3G				100.00										99.92		
				CDMA									100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00	100					
				2G (GSM)	100.00	99		100.00					100.00				99.68			
				3G				100.00										97.57		
				CDMA									99.97							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1									83.68 (IX - RNC_PAYG)		43.78 (Photon Whiz)				
					Plan 2										597.28 (HSD)		345.6 (Photon plus)			
					Plan 3															
				2G	Plan 1	79.20	90.4		77 (Open plan)							71.66 (RNC_PAYG)		66.0 (EDGE)	59.2	65.54 (Rs 599 unlimited 2G Data plan)
					Plan 2															
					Plan 3															
				3G	Plan 1				2710 (Open plan)											1365.82 (Unlimited 2G & 3G Data plan)
					Plan 2															
					Plan 3															
				4G	Plans															
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									112.03 (IX - RNC_PAYG)		52.93 (Photon Whiz)				
					Plan 2										976.51 (HSD)		875.62 (Photon plus)			
					Plan 3															
				2G	Plan 1	112.28	136.5		138 (Open plan)							133.74 (HSD)		110.19 (EDGE)	118.1	114.45 (Rs 599 unlimited 2G Data plan)
					Plan 2															
					Plan 3															
				3G	Plan 1				4499 (Open plan)											1911.20 (Unlimited 2G & 3G Data plan)
					Plan 2															
Plan 3																				
4G				Plans																
6	Latency	Data <250ms	All Generations										75.90	146						
			2G (GSM)	119.23	247.4		106.00					162.15				152.13				
			3G				106.00										40.68			
			CDMA									163.49								
			HSD									41.17								
7	PDP Context Activation Success Rate	≥95%	All Generations										98.70	99.59						
			2G (GSM)	96.39	99.3		100.00					99.90				100.00				
			3G				100.00										100.00			
			CDMA									97.99								
			HSD									97.99								
8	Drop rate :	≤5%	All Generations										2.20	4.5						
			2G (GSM)	0.66	2.4		1.00					1.55				0.75				
			3G				2.32										0.28			
			CDMA									0.12								
			HSD									2.00								

Note 1: The text in the bracket ( like RNC\_PayG, Mblaze etc) are the plan names of the respective service provider.

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone																	
Madhya Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.90	99.64	100.00						99.00			99.99																	
				2G (GSM)										100.00																			
				3G											100.00																		
				CDMA									100.00																				
	2	Successful data transmission download attempts	>80%	All Generations										100.00		97.62																	
				2G (GSM)	99.83	98.8	100.00							100.00			98.57																
				3G			100.00							99.74																			
				CDMA									100.00																				
	3	Successful data transmission upload attempts	>75%	All Generations										100.00		97.57																	
				2G (GSM)	98.17	98.8	100.00							100.00			97.14																
				3G			100.00							100.00																			
				CDMA									100.00																				
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							65.25 (IX - RNC PAYG)		67 (Photon Whiz)																			
					Plan 2							514.75 (HSD)		578 (Photon plus)																			
					Plan 3																												
				2G	Plan 1	128.52	81.9	78 (Open plan)						79.31 (RNC_PAYG)	75 (EDGE)	28.33 (plan:STV Rs. 97 (675MB))	57.72 (MBB_C_V_19 9_30d_D2GB_FU 2G)																
					Plan 2																												
					Plan 3																												
				3G	Plan 1			1504 (Open plan)						1177.28 (HSD)																			
					Plan 2										1707 (Photon 3G)																		
					Plan 3																												
				4G	Plans																												
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.																		CDMA	Plan 1						105.97 (IX - RNC PAYG)		78 (Photon Whiz)			
																						Plan 2						756.88 (HSD)		1123 (Photon plus)			
																						Plan 3											
	2G	Plan 1	148.00	122.5	140 (Open plan)							159.05 (RNC_PAYG)	110 (EDGE)	175 (plan:STV Rs.97 (675MB))	146.09 (MBB_C_V_19 9_30d_D2GB_FU 2G)																		
			Plan 2																														
			Plan 3																														
		3G	Plan 1			2942 (Open plan)						3697.79 (HSD)																					
			Plan 2										2737 (Photon 3G)																				
			Plan 3																														
	4G	Plans																															
6																		Latency	Data <250ms	All Generations									73.10		233.00		
																				2G (GSM)	111.99	120	114.00						167.30		167.81		
																				3G			92.00						101.93				
	CDMA								201.00																								
7	PDP Context Activation Success Rate	≥95%	All Generations										98.60		99.70																		
			2G (GSM)	96.39	99.6	99.29						99.92		99.88																			
			3G			97.76						98.76																					
			CDMA								98.03																						
8	Drop rate :	≤5%	All Generations										1.80		1.56																		
			2G (GSM)	2.91	2.8	0.98						4.45		2.69																			
			3G			1.38						1.23																					
			CDMA								0.45																						
HSD										0.41																							

Note 1: The text in the bracket ( like RNC\_PayG, Mblaze etc) are the plan names of the respective service provider.

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone				
Mumbai	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.77	99.99		100.00	95.67				99.00			98.83				
				2G (GSM)																
				3G										100.00						
				CDMA									100.00							
	2	Successful data transmission download attempts	>80%	All Generations										100.00						
				2G (GSM)	99.57	100		100.00	96.76			100.00				99.22				
				3G		100			99.88			100.00					99.58			
				CDMA								100.00								
	3	Successful data transmission upload attempts	>75%	All Generations										100.00						
				2G (GSM)	99.44	100		100.00	100.00			100.00				99.39				
				3G		100			100.00			100.00					99.42			
				CDMA								100.00								
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1									76.75 (IX - RNC PAYG)		54 (Photon Whiz)				
					Plan 2										755 (Photon plus)					
					Plan 3															
				2G	Plan 1	76.29	125.9		87 (Open plan)	36.91				93.80 (RNC PAYG)		91 (EDGE)			136.09 (VMC699UL)	
					Plan 2															
					Plan 3															
				3G	Plan 1		2591.6				552.84			3722.17						4344 (MI 8GB)
					Plan 2															
					Plan 3															
				4G	Plans															
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1									102.64 (IX - RNC PAYG)		77 (Photon Whiz)				
					Plan 2										1107 (Photon plus)					
					Plan 3															
				2G	Plan 1	125.76	190.5		155 (Open plan)	78.76				170.37 (HSD)		141 (EDGE)			186.65 (VMC699UL)	
					Plan 2															
					Plan 3															
				3G	Plan 1		4443.4				854.52			3948.64						7244.06 (MI 8GB)
					Plan 2															
Plan 3																				
4G				Plans																
6	Latency	Data <250ms	All Generations										84.87							
			2G (GSM)	160.75	107.1		109.00				108.11				69.94					
			3G		25.3			154.94			28.01				16.33					
			CDMA							155.53										
7	PDP Context Activation Success Rate	≥95%	All Generations					100.00					98.15							
			2G (GSM)	96.39	99.2		99.78			99.90				99.01						
			3G		100					99.34				98.54						
			CDMA							97.99										
			HSD							97.99										
8	Drop rate :	≤5%	All Generations					2.23					1.81							
			2G (GSM)	1.26	2.1		0.27			1.12				3.21						
			3G		0.3					0.94				0.53						
			CDMA							0.11										
			HSD							0.52										

Note 1: The text in the bracket ( like RNC\_PayG, Mblaze etc) are the plan names of the respective service provider.

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone			
North East	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	99.86	100		100.00										99.44		
			2G (GSM)										100.00						
			3G																
			HSD																
	2	Successful data transmission download attempts >80%	All Generations																
			2G (GSM)	100.00	100		100.00						100.00					100.00	
			3G	100.00	100								100.00						
			CDMA																
	3	Successful data transmission upload attempts >75%	All Generations																
			2G (GSM)	100.00	100		100.00						100.00					99.98	
			3G	100.00	100								100.00						
			CDMA																
	4	Minimum download speed (Kbps) To be measured for each Plan and Reported to TRAI	CDMA	Plan 1															
				Plan 2															
				Plan 3															
			2G	Plan 1	85.73	138.3		73 (Open plan)						56.34 (RNC PAYG)					93.37 (Pack@699)
				Plan 2															
				Plan 3															
			3G	Plan 1	1010.67	1401.7								1112.21 (HSD)					
				Plan 2															
	Plan 3																		
	5	Average Throughput for Packet data (Kbps) >75% of the subscribed speed.	CDMA	Plan 1															
				Plan 2															
				Plan 3															
			2G	Plan 1	203.44	193.2		98 (Open plan)						119.27 (RNC PAYG)					133.89 (Pack@699)
				Plan 2															
				Plan 3															
			3G	Plan 1	3231.56	3015.3								2076.55 (HSD)					
Plan 2																			
Plan 3																			
6	Latency Data <250ms	All Generations	2G (GSM)	116.17	229.7		111.00					221.46					242.33		
			3G	33.17	37.4							80.84							
			CDMA																
			4G																
7	PDP Context Activation Success Rate ≥95%	All Generations	2G (GSM)	99.30	99		99.81					99.87					99.93		
			3G	99.30	100							99.19							
			CDMA																
			4G																
8	Drop rate : ≤5%	All Generations	2G (GSM)	1.38	2		0.19					3.80					2.65		
			3G	1.03	1.5							0.66							
			CDMA																
			4G																

Note 1: The text in the bracket ( like RNC\_PayG, Mblaze etc) are the plan names of the respective service provider.

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.





Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone				
Punjab	1	Service Activation /Provisioning Within 4 hrs with 95% success rate.	All Generations	99.95	98.29		100.00							100.00			98.32			
			2G (GSM)																	
			CDMA																	
			HSD																	
	2	Successful data transmission download attempts	>80%	All Generations							97.75			100.00						
				2G (GSM)	99.78	100		100.00					100.00					100.00		
				3G	99.78			100.00						100.00						
				CDMA									100.00							
				HSD									100.00							
	3	Successful data transmission upload attempts	>75%	All Generations							97.28			100.00						
				2G (GSM)	99.61	100		100.00					100.00					100.00		
				3G	99.61			100.00						100.00						
				CDMA									100.00							
				HSD									100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1									103.91 (IX - RNC_PAYG)		48.42 (Photon Whiz)				
					Plan 2									591.65 (HSD)		375.56 (Photon plus)				
					Plan 3											2323.33 (Photon Max)				
				2G	Plan 1	109.05	75		111 (Open plan)					160 (Prepaid - STV 96)	1041.11 (RNC_PAYG)		60.41 (EDGE)			133.05 (Unlimite@ 199)
					Plan 2															
					Plan 3															
				3G	Plan 1	2390.91			1870 (Open plan)						1474.25 (HSD)		1332.17 (Photon 3G)			
					Plan 2												3092.81 (Photon 3G)			
					Plan 3												5341.46 (Photon3G+)			
				4G	Plans															
					CDMA	Plan 1									118.07 (IX - RNC_PAYG)		77.10 (Photon Whiz)			
						Plan 2									910.07 (HSD)		1148.95 (Photon plus)			
				Plan 3												2957.90 (Photon Max)				
	2G	Plan 1	146.76	180		153 (Open plan)					217 (Prepaid - STV 96)	157.19 (RNC_PAYG)		99.74 (EDGE)			166.35 (Unlimited@ 199)			
		Plan 2																		
		Plan 3																		
	3G	Plan 1	3070.93			4571 (Open plan)						2499.33 (RNC_PAYG)		1911.66 (Photon 3G)						
Plan 2													4056.44 (Photon 3G)							
Plan 3													6258.67 (Photon3G+)							
4G	Plans																			
	6	Latency	Data <250ms	All Generations							240.00			67.60						
				2G (GSM)	123.98	209.7		219.00					229.00				82.53			
3G				52.29			36.00					38.00								
CDMA												179.00								
HSD												51.00								
7	PDP Context Activation Success Rate	≥95%	All Generations							100.00			98.50							
			2G (GSM)	98.29	99.9		100.00					99.88				99.81				
			3G	98.29			100.00					99.20								
			CDMA									97.97								
			HSD									97.97								
8	Drop rate :	≤5%	All Generations							1.58			2.40							
			2G (GSM)	0.97	0.8		1.71					1.86				1.49				
			3G	1.46			1.06					0.69								
			CDMA									0.41								
			HSD									0.37								

Note 1: The text in the bracket ( like RNC\_PayG, Mblaze etc) are the plan names of the respective service provider.

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone			
Rajasthan	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.92	100	100.00		100				99.00			99.32			
				2G (GSM)									100.00						
				3G									100.00						
				CDMA									100.00						
	2	Successful data transmission download attempts	>80%	All Generations										100.00					
				2G (GSM)	99.29	100	100.00						99.41			100.00			
				3G		100							100.00						
				CDMA							100		100.00						
	3	Successful data transmission upload attempts	>75%	All Generations										100.00			100.00		
				2G (GSM)	98.93	100	100.00						98.82						
				3G		100							100.00						
				CDMA							100		100.00						
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					939 (Mblaze)		85.88 (IX - RNC_PAYG)		77 (Photon Whiz)					
					Plan 2					1404 (Mblaze ultra)		586.98 (HSD)		1203 (Photon plus)					
					Plan 3														
				2G	Plan 1	62.19	74.3		100 (Open plan)					80.81 (RNC_PAYG)		109 (EDGE)			132.50 (Unlimited GB(VL+VMC) @599)
					Plan 2														
					Plan 3														
				3G	Plan 1		1230.7							1674.24 (HSD)					
					Plan 2														
					Plan 3														
				4G	Plans														
					Plan 1							1462 (Mblaze)		122.88 (IX - RNC_PAYG)		83 (Photon Whiz)			
					Plan 2							2769 (Mblaze ultra)		838.00 (HSD)		1675 (Photon plus)			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	2G	Plan 1	140.73	116.3		152 (Open plan)			127.57 (RNC_PAYG)		129 (EDGE)			178.29 (Unlimited GB(VL+VMC) @599)		
					Plan 2														
					Plan 3														
				3G	Plan 1		2445.7							2349.64 (HSD)					
					Plan 2														
					Plan 3														
	6	Latency	Data <250ms	All Generations										97.20					
				2G (GSM)	116.00	203.9		88.00				240.00				133.42			
3G					135.1							46.00							
CDMA									71		180.67								
7	PDP Context Activation Success Rate	≥95%	All Generations										98.00						
			2G (GSM)	99.26	99.9		98.87				99.55				99.84				
			3G		100						99.17								
			CDMA						99.1		97.97								
8	Drop rate :	≤5%	All Generations										1.55						
			2G (GSM)	0.90	1		0.14				1.98				3.41				
			3G		0.8						1.10								
			CDMA						1.2		0.56								
									0.27										

Note 1: The text in the bracket ( like RNC\_PayG, Mblaze etc) are the plan names of the respective service provider.

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone				
Tamilnadu	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.78	100		100.00		100			99.00			100.00				
				2G (GSM)									100.00							
				CDMA									100.00							
				HSD									100.00							
	2	Successful data transmission download attempts	>80%	All Generations										100.00						
				2G (GSM)	100.00	100		100.00					100.00				100.00			
				3G	100.00	100											100.00			
				CDMA						100			100.00							
				HSD									100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00						
				2G (GSM)	100.00	100		100.00					99.81				100.00			
				3G	100.00	100											100.00			
				CDMA						100			99.75							
				HSD									100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						1136 (Mblaze)			59.33 (IX - RNC_PAYG)		39 (Photon Whiz)				
					Plan 2						1762 (Mblaze ultra)			518.27 (HSD)		618 (Photon plus)				
					Plan 3											1401 (Photon Max)				
				2G	Plan 1	96.00	102.5		86 (Open plan)						61.04666667 (RNC_PAYG)		59 (EDGE)		85.76 (199 Unlimited 2GB)	
					Plan 2															
					Plan 3															
				3G	Plan 1	1512.11	1910.4													889.26 (650 Unlimited 3GB)
					Plan 2															
					Plan 3															
				4G	Plans															
					Plan 1															
					Plan 2															
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						1533 (Mblaze)			106.7666667 (IX - RNC_PAYG)		66 (Photon Whiz)				
					Plan 2						3107 (Mblaze ultra)			935.32 (HSD)		1490 (Photon plus)				
					Plan 3											2915 (Photon Max)				
				2G	Plan 1	138.01	149.4		128 (Open plan)						139.6033333 (RNC_PAYG)		115 (Photon Max)		137.20 (199 Unlimited 2GB)	
					Plan 2															
Plan 3																				
3G				Plan 1	3184.64	2493.2													3092.88 (650 Unlimited 3GB)	
				Plan 2																
				Plan 3																
4G				Plans																
				Plan 1																
				Plan 2																
6	Latency	Data <250ms	All Generations										90.29							
			2G (GSM)	109.80	233.3		115.00					115.94				250.33				
			3G	33.49	61.8											67.33				
			CDMA							73		157.98								
			HSD									46.06								
7	PDP Context Activation Success Rate	≥95%	All Generations										98.36							
			2G (GSM)	96.39	100		99.74					99.90				99.78				
			3G	96.39	100											99.65				
			CDMA						99			98.03								
			HSD									98.03								
8	Drop rate :	≤5%	All Generations										1.36							
			2G (GSM)	0.97	0.6		1.56					0.37				4.12				
			3G	1.61	0.2											0.59				
			CDMA						1.8			0.72								
			HSD									1.34								

Note 1: The text in the bracket ( like RNC\_PayG, Mblaze etc) are the plan names of the respective service provider.

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone			
Uttar Pradesh (East)	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.95	99.09	100.00						96.00	100		98.83			
				2G (GSM)								100.00							
				CDMA								100.00							
				HSD								100.00							
	2	Successful data transmission download attempts	>80%	All Generations										100.00	100	92.85			
				2G (GSM)	100.00	100		100.00				99.94				99.46			
				3G	100.00			100.00									99.58		
				CDMA								100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00	100	96.96			
				2G (GSM)	100.00	100		100.00				99.83				98.11			
				3G	100.00			100.00									97.93		
				CDMA								100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1							119.58 (IX - RNC_PAYG)		69 (Photon Whiz)					
					Plan 2						618.39 (HSD)		599.67 (Photon plus)						
					Plan 3								1588.67 (Photon Max)						
				2G	Plan 1	143.33	152.1		109 (Open plan)				80.71 (RNC_PAYG)		35.33 (EDGE)	93.8	157.08 (STV Rs.109 1GB 31 Days)	87.69 (Rs 1599 12 GB free)	
					Plan 2														
					Plan 3														
				3G	Plan 1	2321.07			2130 (Open plan)										2112.53 (Rs 1599 12 GB free)
					Plan 2														
					Plan 3														
				4G	Plans														
					Plans														
					Plans														
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1							127.99 (IX - RNC_PAYG)		83.86 (Photon Whiz)					
					Plan 2						954.76 (HSD)		1089.17 (Photon plus)						
					Plan 3								2159.72 (Photon Max)						
				2G	Plan 1	222.67	178.3		117 (Open plan)				156.68 (RNC_PAYG)		98.85 (EDGE)	116.5	196 (STV Rs.109 1GB 31 Days)	149.46 (Rs 1599 12GB free)	
					Plan 2														
					Plan 3														
3G				Plan 1	4642.13			3148 (Open plan)										4282.28 (Rs 1599 12 GB free)	
				Plan 2															
				Plan 3															
4G	Plans																		
	Plans																		
	Plans																		
6	Latency	Data <250ms	All Generations										97.35	125	195.00				
			2G (GSM)	226.00	238.3		175.00				133.06					214.33			
			3G	47.33			99.00										55.17		
			CDMA								151.92								
			HSD								46.27								
7	PDP Context Activation Success Rate	≥95%	All Generations										98.41	99.59	100.00				
			2G (GSM)	98.91	99.7		99.33				99.55					99.76			
			3G	98.91			99.03										99.25		
			CDMA								97.97								
			HSD								97.97								
8	Drop rate :	≤5%	All Generations										1.93	4.96	1.48				
			2G (GSM)	0.50	1.1		0.99				0.16					3.73			
			GSM OSS								2.66						0.65		
			3G	0.42			1.61												
			CDMA								0.70								
			CDMA plan 2																
			HSD test																
HSD oss								0.75											

Note 1: The text in the bracket ( like RNC\_PayG, Mblaze etc) are the plan names of the respective service provider.

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone				
Uttar Pradesh (West)	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.99	100		100.00		100			96.00	100		99.19				
				2G (GSM)									100.00							
				CDMA									100.00							
				HSD									99.00							
	2	Successful data transmission download attempts	>80%	All Generations										100.00	100	96.56				
				2G (GSM)	97.99	99.7		100.00					100.00				100.00			
				3G		100		100.00												
				CDMA						99.8			100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00	100	96.73				
				2G (GSM)	95.89	100		100.00					100.00				100.00			
				3G		100		100.00												
				CDMA						99.9			100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						507 (Mblaze)			90.93 (IX - RNC_PAYG)		59 (Photon Whiz)				
					Plan 2						1508 (Mblaze ultra)			90.93 (HSD)		836 (Photon plus)				
					Plan 3											979 (Photon Max)				
				2G	Plan 1	85.92	39.7		96 (Open plan)						111.43 (RNC_PAYG)	63 (EDGE)	99.7	154 (Prepaid - STV_96)	74.09 (250 with 1GB data)	
					Plan 2															
					Plan 3															
				3G	Plan 1		1114.57		2898 (Open plan)											
					Plan 2												2542 (Photon 3G)			
					Plan 3												4233 (Photon3G+)			
				4G	Plans															
					5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					972 (Mblaze)			107.47 (IX - RNC_PAYG)		76 (Photon Whiz)	
									Plan 2					2339 (Mblaze ultra)			951.97 (HSD)		1653 (Photon plus)	
	Plan 3													2122 (Photon Max)						
	2G	Plan 1	146.93	139.4		144 (Open plan)						167.71 (RNC_PAYG)	99 (EDGE)	125	207 (Prepaid - STV_96)	138.45 (250 with 1GB data)				
		Plan 2																		
		Plan 3																		
	3G	Plan 1		2968.4		5111 (Open plan)														
		Plan 2												3592 (Photon 3G)						
		Plan 3												5469 (Photon3G+)						
	4G	Plans																		
6		Latency	Data <250ms	All Generations									68.50	120	240.00					
				2G (GSM)	140.86	201		191.00				223.60			251.00					
	3G				184.3		57.00													
CDMA								64		229.99										
	HSD									71.26										
	7	PDP Context Activation Success Rate	≥95%	All Generations									98.50	99.59	100.00					
2G (GSM)				92.87	99.7		99.64				99.88			99.76						
3G					100		99.62													
CDMA								99.3		96.78										
	HSD									96.78										
	8	Drop rate :	≤5%	All Generations									2.20	4.8	1.58					
2G (GSM)				0.50	0.7		1.17				1.46			3.73						
3G					0.6		0.30													
CDMA									0.9		0.48									
HSD									0.79											

Note 1: The text in the bracket ( like RNC\_PayG, Mblaze etc) are the plan names of the respective service provider.

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.

Sl. No.	Parameters	Benchmarks	Generations	Aircel	Airtel	BSNL	Idea	MTNL	MTS	Quadrant	Rcom	RTL	TATA	Uninor	Videocon	Vodafone				
West Bengal	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations	99.97	100		99.99		100			98.00			99.20				
				2G (GSM)										100.00						
				3G											100.00					
				CDMA									100.00							
	2	Successful data transmission download attempts	>80%	All Generations										100.00						
				2G (GSM)	100.00	100		100.00						100.00			99.54			
				3G	100.00	100								100.00				97.96		
				CDMA							100		100.00							
	3	Successful data transmission upload attempts	>75%	All Generations										100.00						
				2G (GSM)	100.00	100		100.00						100.00			98.10			
				3G	100.00	100								100.00				97.81		
				CDMA							100		100.00							
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1						939 (Mblaze)			89.55 (IX - RNC PAYG)		43 (Photon Whiz)				
					Plan 2						1887 (Mblaze ultra)									
					Plan 3															
				2G	Plan 1	111.59	102		99 (Open plan)						56.34 (RNC PAYG)	63 (EDGE)			63.17 (2GB plan)	
					Plan 2															
					Plan 3															
				3G	Plan 1	2129.92	2093.4								1112.21 (HSD)					1673.20 (5GB plan)
					Plan 2															
	Plan 3																			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1						1742 (Mblaze)			147.47 (IX - RNC PAYG)		82 (Photon Whiz)				
					Plan 2						3269 (Mblaze ultra)									
					Plan 3															
				2G	Plan 1	161.37	143.6		144 (Open plan)						144.01 (RNC PAYG)	141 (EDGE)			134.22 (2GB plan)	
					Plan 2															
					Plan 3															
				3G	Plan 1	4213.42	2983.6								2076.55 (HSD)					5340.17 (5GB plan)
Plan 2																				
4G	Plan 3																			
	Plans																			
6	Latency	Data <250ms	All Generations										161.74							
			2G (GSM)	232.23	238.2		191.00						221.46			106.83				
			3G	95.52	53								80.84			47.06				
			CDMA							63		178.20								
			HSD																	
7	PDP Context Activation Success Rate	≥95%	All Generations										98.37							
			2G (GSM)	99.39	99.6		98.93						99.87			99.79				
			3G	99.39	100								99.19			99.24				
			CDMA							99.4		98.03								
			HSD																	
8	Drop rate :	≤5%	All Generations										1.14							
			2G (GSM)	0.00	3		1.02						4.00			4.68				
			3G	0.00	0.5								0.66			0.62				
			CDMA							1		0.80								
			HSD																	

Note 1: The text in the bracket ( like RNC\_PayG, Mblaze etc) are the plan names of the respective service provider.

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.